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Attorney's Docket No. 2002CH004

PatentIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Helmut SIEBER : Attorney Docket: 2002CH004
Serial No.: to be assigned :
Filed: December 3, 2004 :
For: Dyeing Polyester Textile Materials:

Transmittal LetterNotification of Amendments Under PCT Article 34

Mail Stop
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Preliminary to the examination of the above-identified application, an Amendment was filed under Article 34 of the Patent Cooperation Treaty prior to the International Preliminary Examination. Please note the attached pages numbered 1, 2, 3, and 4, of the claims, as filed with the European Patent Office on June 18, 2004. We enclose copies of the above-mentioned pages for your convenience.

Applicant respectfully requests submission of these pages before examination of the application and before entry of the Preliminary Amendment.

Respectfully submitted,



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International Application No. PCT/IB 03/02140

amended claims

DT05 Rec'd PCT/PTO 03 DEC 2004

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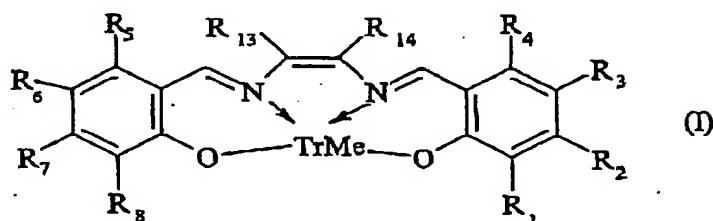
CLAIMS

1. Use of at least one transition metal coordination compound for improving the light fastness of dyed polyester material.

2. Use according to claim 1 characterized in that the transition metal coordination compound comprises Ni, Co, Cr or Cu (Nickel, Cobalt, Chromium or Copper).

3. Use according to claim 2 characterized in that the transition metal coordination compound comprises Nickel (Ni).

4. Use according to claim 1 characterized in that the transition metal coordination compound is a compound according to formula (I)



wherein

TrMe signifies a transition metal and R_1 to R_8 independently from each other signify H, halogen, $-\text{NO}_2$, $-\text{CN}$, $-\text{OH}$, $-\text{COOH}$, $-\text{CH}_3$, $-\text{NH}_2$ or NHCH_3 and R_{13} or R_{14} independently from each other signify H, halogen or $-\text{CN}$, or R_{13} and R_{14} form together a ring which is by preference a six membered ring and which may be unsubstituted or may be substituted by halogen, $-\text{NO}_2$, $-\text{CN}$, $-\text{OH}$, $-\text{COOH}$, $-\text{CH}_3$, $-\text{NH}_2$ or NHCH_3 .

5. Use according to claim 4 characterized in that the transition metal in the transition metal coordination compound of formula (I) is Nickel

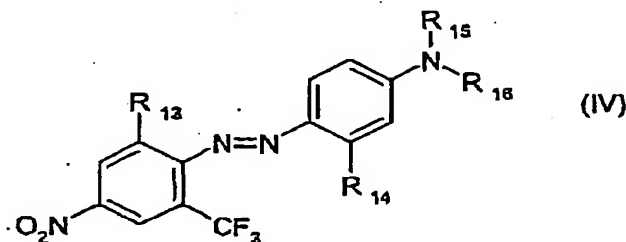
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6. Use according to any of the claims 1 to 5 characterized in that the transition metal coordination compound is used in a mixture comprising at least one of the following dyes: C.I. Disperse Yellow 42, C.I. Disperse Yellow 72, C.I. Disperse Yellow 86, C.I. Disperse Yellow 54, C.I. Disperse Yellow 64, C.I. Solvent Yellow 163, C.I. Disperse Red 60, C.I. Disperse Red 86, C.I. Disperse Red 91, C.I. Disperse Red 167, C.I. Disperse Red 167.1, C.I. Disperse Red 202, C.I. Disperse Red 302, C.I. Disperse Red 273, C.I. Disperse Red 279, C.I. Disperse Red 271, C.I. Solvent Red 135, C.I. Disperse Violet 27, C.I. Disperse Violet 57, C.I. Disperse Blue 56, C.I. Disperse Blue 77, C.I. Disperse Blue 54, C.I. Disperse Blue 27, C.I. Disperse Blue 55, C.I. Disperse Blue 60, C.I. Disperse Blue 87, C.I. Disperse Orange 30, C.I. Disperse Orange 41, C.I. Disperse Orange 29, structures according to formula (IV)



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wherein

- R_{13} signifies -Br, -Cl, or -CN;
 R_{14} signifies -H, -CH₃, -NHCOCH₃;
 R_{15} signifies a unsubstituted ethyl group or ethyl group which is substituted by -CN, -acyloxy;
 R_{16} signifies a unsubstituted ethyl group or ethyl group which is substituted by -CN, -acyloxy;

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or mixtures thereof.

- 25 7. Mixture comprising at least one transition metal coordination compound and at least one disperse dye characterized in that the at least one disperse dye is at least one of the following dyes: C.I. Disperse Yellow 42, C.I. Disperse Yellow 72, C.I. Disperse Yellow 86, C.I. Disperse Yellow 54, C.I. Disperse Yellow 64,

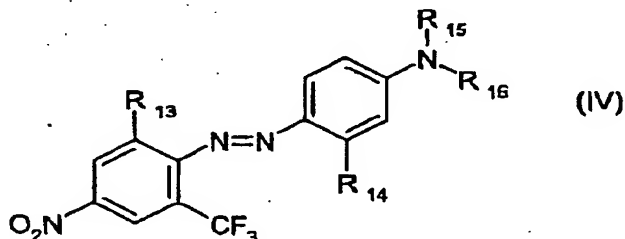
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C.I. Solvent Yellow 163, C.I. Disperse Red 60, C.I. Disperse Red 86, C.I. Disperse Red 91, C.I. Disperse Red 167, C.I. Disperse Red 167.1, C.I. Disperse Red 202, C.I. Disperse Red 302, C.I. Disperse Red 273, C.I. Disperse Red 279, C.I. Disperse Red 271, C.I. Solvent Red 135, C.I. Disperse Violet 27, C.I. Disperse Violet 57, C.I. Disperse Blue 56, C.I. Disperse Blue 77, C.I. Disperse Blue 54, C.I. Disperse Blue 27, C.I. Disperse Blue 55, C.I. Disperse Blue 60, C.I. Disperse Blue 87, C.I. Disperse Orange 30, C.I. Disperse Orange 41, C.I. Disperse Orange 29, structures according to formula (IV)



wherein

R_{13} signifies -Br, -Cl, or -CN;

R_{14} signifies -H, -CH₃, -NHCOCH₃;

R_{15} signifies a unsubstituted ethyl-group or ethyl group which is substituted by -CN, -acyloxy;

R_{16} signifies a unsubstituted ethyl group or ethyl group which is substituted by -CN, -acyloxy;

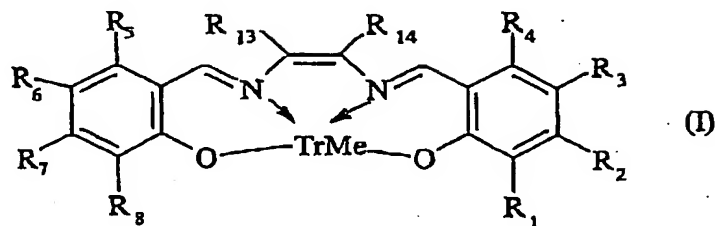
or mixtures thereof.

8. Mixture according to claim 7 characterized in that the at least one transition metal coordination compound is a transition metal coordination compound according to formula (I)

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wherein

TrMe signifies a transition metal and R_1 to R_8 independently from each other signify H, halogen, $-\text{NO}_2$, $-\text{CN}$, $-\text{OH}$, $-\text{COOH}$, $-\text{CH}_3$, $-\text{NH}_2$ or NHCH_3 and R_{13} or R_{14} independently from each other signify H, halogen or $-\text{CN}$, or R_{13} and R_{14} form together a ring which is by preference a six membered ring and which may be unsubstituted or may be substituted by halogen, $-\text{NO}_2$, $-\text{CN}$, $-\text{OH}$, $-\text{COOH}$, $-\text{CH}_3$, $-\text{NH}_2$ or NHCH_3 .

9. Mixture according to claim 8 characterized in that the transition metal TrMe comprises Ni, Co, Cr or Cu (Nickel, Cobalt, Chromium or Copper).

10. Mixture according to claim 9 characterized in that the transition metal TrMe is Nickel.

11. Textile material dyed with a mixture according to Claim 7.

12. Use of a textile as claimed in Claim 11 as automobile upholstery or as an article of clothing or as a sun blind or textiles for out door furnitures.